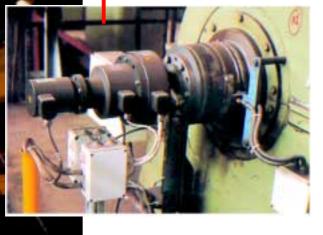






Hot, harsh atmospheres: This rolling mill needs rugged drives. The triple combination from HÜBNER – Digital-Tacho (encoder) + Analog-Tacho + overspeed switch (HOG 22 + HTA 11 + ES 100) – reliably and precisely delivers the signals needed for the electronic system.



Paper sheet cutting machines – here in China, the mother country of paper – must operate with maximum precision to cut sheets of large size accurately. The cross-cutter drive control receives speed signals from a direct-mounted GTB 9 hollow-shaft tachogenerator. An incremental encoder detects positions via a coupling in the rear support housing.



Ice cold mobile: This automatic guided vehicle must operate reliably in the deep-freeze store at -30 $^{\circ}$ C. The tachogenerator mounted on the wheel drive is the GT 5 from HÜBNER.



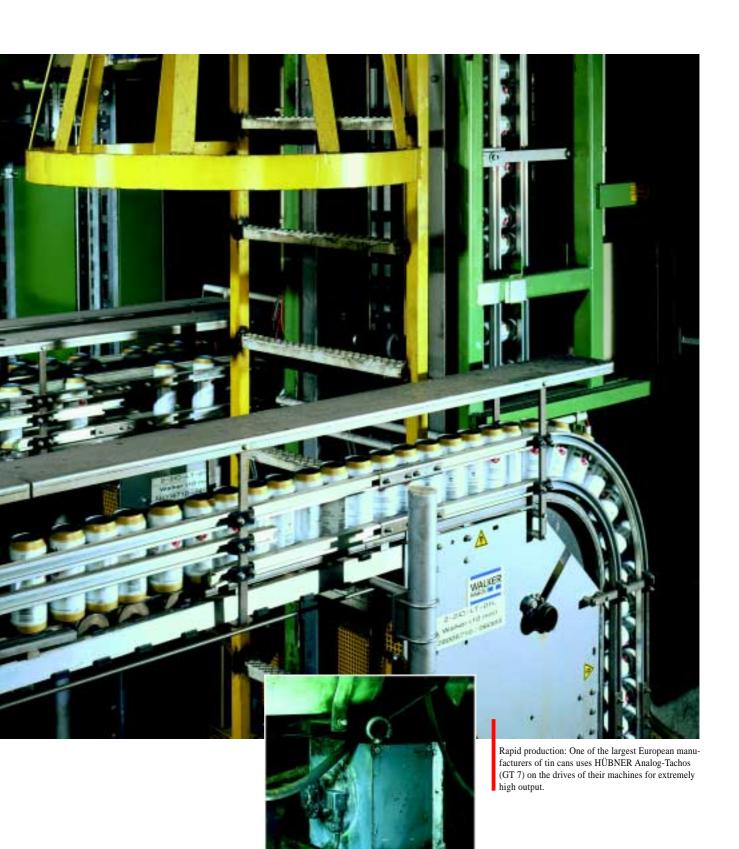


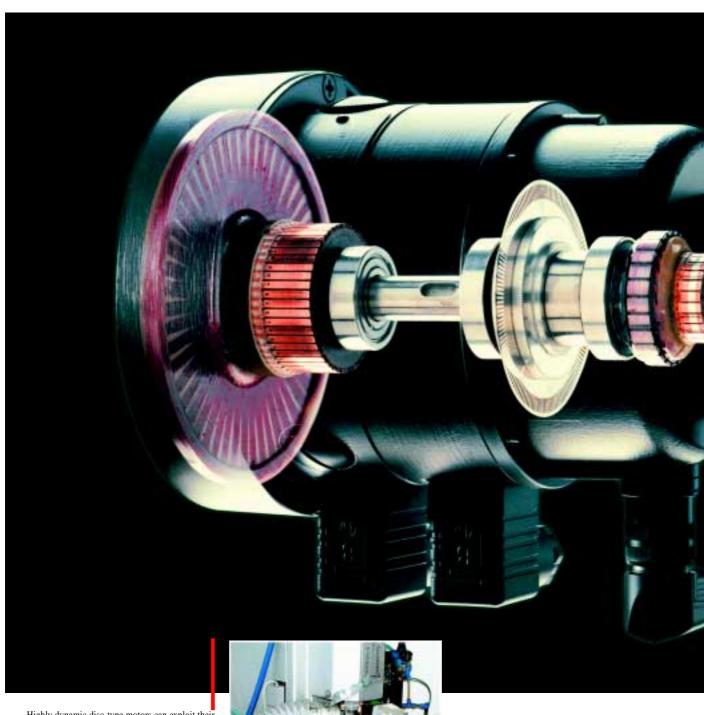
Dust-tight: Unaffected by dust and harsh atmosphere in the refuse incinerating plant, the triple combination of Analog-Tacho + Digital-Tacho + overspeed switch (TDP 0,2 + POG 9 + FSL) operates efficiently without interruption.





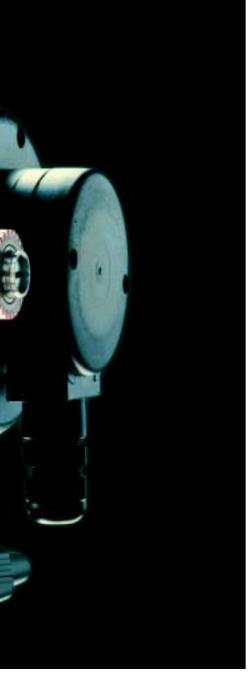






Highly dynamic disc-type motors can exploit their control capabilities with direct-mounted components:

The Digital- and Analog-Tacho sit directly on the motor shaft – for example, as shown here on a special machine for embedding silver tracks in HÜBNER commutators.



In use around the clock across the world: TDP 0,2, shown here with NEMA flange on an American machine for coating base materials for nickel cadmium batteries.

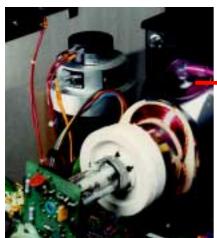




Test passed:
Only to be seen on the testbench is the vehicle –
the LongLife® tachogenerator
TDP 0,09 is already proven
on the drives.

Source of Photographs

ALSTOM AMICON/SIEI AMERICA B.A. Systèmes ELIN euroHÜBNER EW HOF HÜBNER Max Planck Institut für Radioastronomie Micromatik PLM Dosenwerk Schabmüller Schenck Pegasus Schuler-Pressen SIEMENS Winkelmann



The precision of digital exposure systems largely depends on the smooth operation of the drives – a typical application of small, highly dynamic hollow-shaft tachogenerators, for example, the GT 5.



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The height of precision in speed and position: HÜBNER Technology.

LongLife® DC Tachogenerators with the patented silver track embedded into the commutator. We support this with a two year guarantee.

Digital-Tachos (incremental encoders) in **HeavyDuty**® technology: rugged electrical and mechanical construction.

LowHarmonics Sinus-Tachos: Sinewave signals with

significantly low harmonics – a new level of precision.

Overspeed switches:

mechanically by centrifugal actuator or electronically with own or external voltage supply.

ExtendedSpeed[®] angular and linear acceleration sensors with no speed limit.

Combinations: Digital-Tachos, dc tachogenerators or overspeed switches in one single housing with continuous shaft.



Δ 1